



**Wireless Systems, Technical Assistance Center**  
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# Receiving and decoding 162 MHz Weather Alerts on M/A-Com mobile and portable radios.

This document shows how you can program your 150 to 174 MHz mobile and portable radios to receive the continuous weather broadcasts from the **U.S. National Oceanic and Atmospheric Administration (NOAA)** and **Environment Canada**, and have the radio remain muted until a severe weather alert is issued.

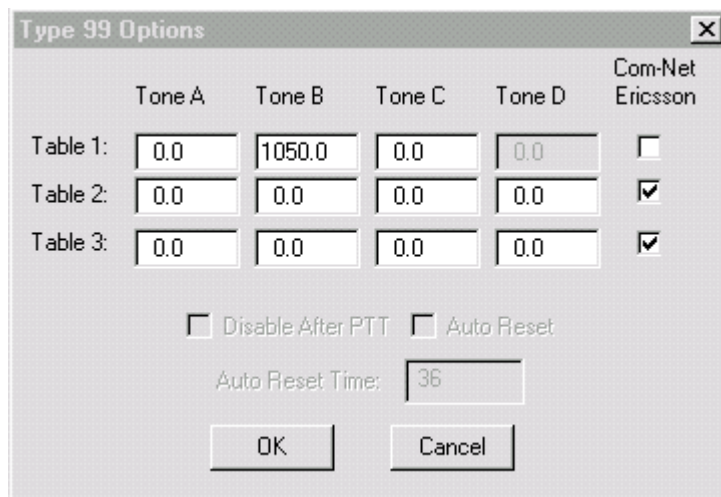
### Weather Broadcast Frequencies:

WX-1	162.550 MHz
WX-2	162.400 MHz
WX-3	162.475 MHz
WX-4	162.425 MHz
WX-5	162.450 MHz
WX-6	162.500 MHz
WX-7	162.525 MHz

The models of M/A-Com Wireless Systems radios that currently support T-99 (or Two-Tone Decode) are:

**KPC, KMC, MDX, M-PA, M-RK, Orion, Panther 300 Series, and Panther 500p.**

- ◆ First, you will have to designate the proper decode tone in the Type 99 Options screen.
  - ◆ Enter **1050.0** Hz into the **Tone B** box.
  - ◆ Uncheck the **Com-Net Ericsson** format box.



- ◆ Next, pick the desired weather broadcast frequency(s) and program into the CONVENTIONAL FREQUENCY SET, and designate that this channel has T-99 decode function.

For M-PA, M-RK, and Orion radios, check the T99 box to configure the conventional channel as shown below:

The screenshot shows the 'Conventional Frequency Set' dialog box. The 'Conventional Set' is 'WEATHER'. The 'Channel Number' is '02 - ALERT-1'. The 'Band Split' is '150.00000-174.00000' and 'Conv Set Scope' is 'LOCAL'. In the 'Channel Options' section, 'T99' is checked, while 'T99 Quick Call' is unchecked. Other options like 'CCT', 'Scan', 'Backlight', 'Preamp', 'Tone Encode', 'OS', 'Alert Tone', 'TX Busy', 'Fix Power', 'G-STAR', 'G-STAR STE', 'G-STAR CG', 'T99 Group', 'T99 Super Group', 'T99 Individual', 'T99 AND RX CG', and 'STE' are also visible.

For KMC, KPC, Panther 300 series, and Panther 500p radios, select T99 Table-1, check the T99 Quick Call, and configure the conventional channel as shown below:

The screenshot shows the 'Conventional Frequency Set' dialog box. The 'Channel Options' section shows 'T99 Table' set to '1' and 'T99 Quick Call' checked. Other options like 'CCT', 'Scan', 'Backlight', 'Preamp', 'Tone Encode', 'OS', 'Alert Tone', 'TX Busy', 'Fix Power', 'G-STAR', 'G-STAR STE', 'G-STAR CG', 'T99 Group', 'T99 Super Group', 'T99 Individual', 'T99 AND RX CG', and 'STE' are also visible.

For **MDX** radio, select **T99 Table-1**, check the **T99 Quick Call**, and configure the conventional channel as shown below:

Then, on the **M-RK and Orion** model radios, you also must configure the **System Setup Conventional** screen by selecting the **Type 99 Tone Table** and checking the **QuickCall** box as follows:

In the United States, most NOAA Weather Radio stations test this severe weather tone alerting function on Wednesdays around local Noontime.

In Canada, Environment Canada stations test the severe weather tone alerting function on the first Monday of each month at 12 Noon local time. This time can vary from region to region. Please check with your local Environment Canada weather office for exact date and time information.

A complete list of NOAA weather broadcast stations in the USA can be found at:

<http://205.156.54.206/nwr/index.html>

Stations in Canada operated by Environment Canada can be found at:

[http://www.msc-smc.ec.gc.ca/cd/factsheets/wxradio/page3\\_e.cfm](http://www.msc-smc.ec.gc.ca/cd/factsheets/wxradio/page3_e.cfm)